



Attorney Docket No. 1293.1925

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Jae-seong Shim et al.

Application No.: 10/667,670

Group Art Unit: TO BE ASSIGNED

Filed: September 23, 2003

Examiner:

For: DATA MODULATING METHOD AND APPARATUS, DATA DEMODULATING METHOD AND APPARATUS, AND CODE ARRANGING METHOD

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. Form PTO-1449.
- 1b. Copies of IDS citations.
- 1c. An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. English language translation (complete or relevant portion(s)) attached to each non-English language publication.
- 1e. Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.

2. In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is

(Check appropriate Items 2a, 2b, 2c and/or 2d)

- 2a. satisfied because all non-English language publications were cited on the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp. 600-100 to 600-101, Rev. 1, Feb. 2000.)
- 2b. set forth in the application.

2c. satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.

2d. enclosed as Attachment 1(e), hereto.

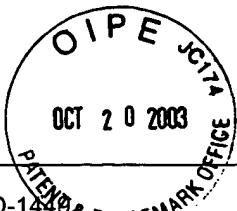
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

Respectfully submitted,

STAAS & HALSEY LLP

By: 
Michael D. Stein
Registration No. 37,240

Dated: October 20, 2003
1201 New York Ave., N.W., Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501



FORM PTO-1410 & TRADEMARK OFFICE
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTORNEY DOCKET NO. 1293.1925 APPLICATION NO. 10/667,670

FIRST NAMED INVENTOR

Jae-seong Shim et al.

FILING DATE

September 23, 2003 GROUP ART UNIT

TO BE ASSIGNED

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
	AG	10-1999-7003183	4/12/1999	Korea			
	AH						
	AI						
	AJ						
	AK						
	AL						

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AM	Kees A. Schouhamer Immink; Codes for Mass Data Storage Systems; Chapter 13, 1999; pp. 261-278
	AN	
	AO	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**ATTACHMENT 1(e)****EXPLANATIONS OF RELEVANCY
OF REFERENCES**

ATTORNEY DOCKET NO.	APPLICATION NO.
1293.1925	10/667,670
FIRST NAMED INVENTOR	
Jae-seong Shim et al.	
FILING DATE	GROUP ART UNIT
September 23, 2003	TO BE ASSIGNED

Patent No.: KR 10-1999-7003183

Date: April 12, 1999

Related to data modulating method and apparatus, data demodulating method and apparatus, and code arranging method